

File
1-48

State of California
The Resources Agency
DEPARTMENT OF WATER RESOURCES
DIVISION OF SAFETY OF DAMS

INSPECTION OF DAM AND RESERVOIR IN CERTIFIED STATUS

Name of dam Oroville Dam Dam No. 1-48 County Butte
Type of dam Earthfill Type of Spillway Gated Concrete Weir and Chute
Water is 41.2 feet below spillway crest and 63.2 below dam crest.
*Elevation 858.79 feet (above,below) (above,below)

Weather Conditions Sunny, hot, calm

Contacts made Alex Samaan, O&M; Christina Rivas, student; Dan Garcia, student;
Michael Urbano, student; John Yarbrough, student

Reason for inspection Periodic Evaluation (2nd inspection)

Important Observations, Recommendations or Actions Taken

1. The gallery housekeeping remains as stated in the previous examinations. Steps, walls, and floors have accumulations of precipitated material. Removal and renovation work will commence in one to two months. A detailed evaluation of the significant issues for this dam is in the inspection report of 1/12/00.

Conclusions

From the known information and the visual inspection, the dam, reservoir, and the appurtenances are judged satisfactory for continued use, pending tendon modifications on trunion anchors.

Item No.*	Item Name and Observation and Comment
A1-A4	<p><u>Dam</u> - The visible portions of the embankment slopes, crest, and abutments are in good condition with no sign of instability. The riprap on the upstream slope is in good condition. Minor beaching is occurring in some areas. A small amount of vegetation is present on the upstream slope as is an occasional accumulation of debris. Overall, vegetation control is good and rodent activity is not a problem. The right gallery was entered and traversed to the core block and Terminal S. No unusual structural conditions were noted. Housekeeping in the galleries remains as noted in the report of 1/12/00. Removal of precipitates and renovation of the galleries is scheduled to begin within the next two months.</p> <p><u>Bidwell Bar Canyon Saddle Dam, Parish Camp Saddle Dam</u> - These facilities were not visited.</p>
6,8, 10	<p><u>Spillway</u> - The approach, and downstream chute were clear and unobstructed. The visible portions of the emergency spillway weir are in satisfactory condition. The spillway piers, and walls were observed from the dam crest and lower roadway as well as from the downstream end of the chute. The concrete is in good condition, with the exception of the ongoing spalling of the bridge abutments. The left dentate repair is in good condition. No recent movement of the walls or chute was evident.</p>

Typed by wmp

Use Field Sheet Standard

Inspected by W Pennington

Date 7/26/00

Numbers and Items

Date of Inspection 6/28/00

cc for Book/Owner

(See Reverse Side)

Date of Report 7/26/00

Photos taken? Yes No X

Sheet 1 of 2 Sheets

INSPECTION OF DAM AND RESERVOIR IN CERTIFIED STATUS

Name of Dam Oroville Dam No 1-48

Date of Inspection 6/28/00

Observations and Comments (Continued)

Item No.*	Item Name and Observation and Comment
14, 16	<p>The radial gates, pre-stressed anchors and hoisting equipment were viewed from the various decks and the lower road over the chute. The gates were closed. From low to moderate seepage was exiting from the top and/or bottom seals of the gates. The paint system on the gates is in need of restoration. The hoist cables had no visible defects and showed no sign of unequal tension. Structural repair of the gates is scheduled for completion in December 2002, and will occur over two seasons.</p> <p><u>Outlet</u> - All turbines were running. The river outlets were passing 8,500 cfs. The sloping intake was not visited, nor was the Palermo tunnel. The guard valves appear to be well maintained. The Howell-Bunger valves were operating and not visible. The valves are reportedly cycled once per year. The visible portion of the outlet tunnel shows damage to the ring baffle from previous high releases.</p>
17	<p><u>Seepage</u> - Seepage started at about elevation 750 in the right gallery, and gradually increased in quantity, in the typical manner, to the core block. The 22½° v-notch for the right bypass read 0.24 feet, 7gpm. The S-block conditions were unchanged.</p>
18	<p><u>Instrumentation</u> - Terminal S was inspected and found to be in the same condition as previously documented, however, the tubes are to be cut and the terminal covered with a steel plate. No other instruments were reviewed during the inspection.</p>

Author/Typist WMP/wmp Sheet 2 of 2 Sheets